MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Please indicate soon any additional notes wanted. I am waiting for a good chance of private hand to send you a parcel including fungus &c. Dr Gray has disposed of all my plants making 8 sets varying from 350 to 137. including some Shrubs & mine 11. sets.

Now is the time to instruct me in regard to desiderata for next season. I want to get 20 sets. average 200 for next season

Rec'd Dec 31
Ans Jan 10

Yours truly

Newport Dec 28

C. C. Parry

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Rec Jan 5
Ans Jan 10

Davenport Jan 3d 1862

My Dear Dr

Gray writes. "Tele Engelmann to send on his notes as soon as he can". I have just forwarded my preliminary sketch. Should like to have had your criticisms, Dr Gray seems pleased with it. writes "I quite like your sketch. it is graphic and well written" With this commendation I am satisfied to let it go. though it does not come up to my wishes. I have condensed it to 15 pages letter paper. comprising general views of distribution scenery &c. studiously avoiding the ground that will be taken by Jones.

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and Dr Gray's notes & determinations I suppose you will hardly be able to include your monograph of Western Pines, but you will at least indicate some of your views and can introduce a synopsis, leaving full details for a separate paper. I do not think of any additional notes to send you. If there are any points omitted please indicate them soon. by ??? Also try & push me up as well as you can what to look for & collect on my next trip. I intend to pay particular attention to trees. will collect specimens of wood bark &c. and exact measurements of size & height &c &c

Polemonium pulcherrimum

I have a few seeds not yet distributed among others. Aquilegia cerulea. A. brevistyla. Aconitum nasutum. Delphinium exaltatum. Claytonia arctica. Arnica cordifolia, and some others. Could you make any use of some or all of them for cultivation. I suppose it would be difficult or impossible to raise the very alpine ones but they may be useful for study. I would like next year to make more of a business of collecting seeds, and try and dispose of them, please give me your views, on this subject, and any directions you may have about collecting & preserving fruits & seeds

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I do not think of more to write at present and will wait till I hear from you again

Yours truly
C. C. Parry.

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Rec'd Jan 19th
Ans Jan 29

Davenport Jan 15th 1862

My Dear Dr

Yours of 16th inst rec'd. I like your Dutch way of doing business, clear up as you go. So you have found a resting place for 135. G. humilis. I send herewith a set of seeds. too few & meagre but the best I can do. I think you will find what there is, well matured. I do not know how it is about cultivating alpine plants at lower elevations so different from their natural habitat. How is this? At least you can perhaps supply some of your European correspondents living in situations more nearly approximating.

I received a very kind & considerate letter from Prof Short some days ago in answer to mine. Nothing lately from Dr Gray. — I did not see an oak or hickory after leaving the frontier on the Missouri. So you are going to try & fix me out with a barometer next time. Good!!

3 & 4. G. Debilis. grows scattering, associated with G. prostrata color of fl. light blue. inconspicuous, only to be detected by getting on your knees and crawling over the matted sod in which it grows often bedded in masses of Silene acaulis — I think you got but a single specimen, Gray had more. I kept none. I did not know that you were particularly interested in Gentianaceae, or I would have sent you more

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and better specimens. I have got to space specimen of S. strigida. (perhaps S. hamulus) I hardly know how to describe the position of cones of P. flexilis I suppose in old times, botanists would call it sub-pendulous, the cones are loosely attached (not at) but near the extremity of the horizontal branches and I think quite constantly with points downwards. though sometimes disposed in whorls of 2 or 3. the side ones are inclined outwards & downwards. this is my recollection. I am obliged for all suggestions about improving the character of my collections shall bear them in mind. — I shall be delighted to see your details and analyses with plates in Proceedings St Louis Academy. Do you get Proceedings San Francisco Acad. Nat Sci. I have lately received numbers including years 1860–61. nearly entirely taken up with descriptions & figures of plants by Kellogg. I fear he is a little fast in his determinations, and too fond of making species. I recognize several old acquaintances in his Nov Sp — I also infer that Dr Andrews is out there. I have written to Kellogg urging him to send specimens to Dr Gray for verification. & suggesting that you should be supplied with copy of Proceedings also your interest in Californian Pines &c

I must close

Truly yours

C. C. Parry.

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Rec'd Jan 22nd
Ans Jan 29

Davenport. Jan. 21st 1862

Dr Engelmann

Dear Sir

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GEORGE ENGELMANN PAPERS

The enclosed scraps of ferns sent to me by Schott to be named. I enclose to you. Will you please look them over, and if you can furnish the correct names. (i e if they deserve a name) give our friend Schott the benefit of it, and forward to him

Yours &c

C. C. Parry

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Rec'd Feb 11th
Ans March 3d

Davenport Feby 8th 1862

My Dear Dr

Your two notes of late date rec'd. I enclose as requested scrap of my Calif.a pine. also seeds of the same procured from the Indians. consequently roasted – You will notice a close resemblance between them and P. edulis. but the Cal.a seeds are much more oily and of a more waxy texture. In the figure in Mex Bdy Rep. I notice the leaves represented as mostly in 5s. This is a mistake I have found them quite constantly in 4s rarely 5 – 3 v. 2. So that in my notes I distinguish it as P. quadrifolia. You must persevere till you get something out of Torrey or Newberry. to settle about that P. cembroides? So you decide the Rocky Mt Spruce to be a contraband D. I am well acquainted with the general appearance of A. alba in the East & N.W. The Rocky Mt species struck me as being of a more stiff habit

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with stiffer more tapering trunk. branches forming an acute angle upwards with the main axis In some places. it presented a regular steeple top. more conical than A balsamea! Its foliage is decidedly dark though not strikingly so, the peculiarities of the bark peeling off in unequal shaped shreds. of a purplish brown color is quite different from the rough brown bark of A alba.

I will very cheerfully send you all my pines as soon as the River opens and I get a good chance of a private hand to deliver to you without charge

So the Rocky Mt Primula, is a Russian Emigrant — Good! I have thought all the time that it would turn out a described plant, as it grew. not like a rare plant. found quite constantly in its peculiar habitat. rooting in the upper portions of alpine brooks. its matted knotted roots. bathing in snow water. its flowers are a bright carmine red. not purple as described in D C. Prod.

I have not looked lately at specimens of Gentz. humilis, to make up my mind about its color. I may have served you rather stupidly. so I will enclose (if I have it) an additional specimen or two. when I come across it —

Do you know what Gray has decided in regard to the alpine Synthyris? I suppose Beath. will have to get his eye on it first —

I am not personally acquainted with Dr Kellogg of San Francisco. You need not hesitate to write to him direct. no doubt they will furnish you with copy of Transactions. and probably be glad to make exchanges. If I hear from him soon I shall urge the matter again and state your intention of writing to him. I am glad the potatoes turned out onwind. as I have since found that the formics were disposed to rot. which they have never done before. I believe too your Fatherland is quite alliaceously inclined

Yours truly

C C Parry.

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Rec. Febr 19th
Ans March 3d

Davenport. Feby 13th 1862

My Dear Dr.

I have just come across a scrap of Arceuthobium the only one I brought from the Mts parasitic on Pinus ponderosa. I also send with this a scrap from my California Coll. parasitic on Pinus Muricata. The former male, the latter female. Are they the same sp. I have also picked out for you an additional sp of Gent. humilis showing fl & fr as it is so tender I do not enclose it but will slip it into parcel of pines. when sent

I do not see that I can enlighten you on the color of the G. humiles I think however there is little difference between the dried & fresh s/s both having a bleached sickly look. possibly there is a slight tinge of blue to the summit of the fl. but quite faint if any.

I have been somewhat ailing for several days so will not prolong this letter.

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Yours truly
C. C. Parry

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Rec'd March 9th
Ans 12th

Davenport March 6th 1862

My Dear Dr

Some time since I heard from you. I believe I manage to keep you in my debt. For a few weeks past I have been affected with a severe cold unfitting me for any unnecessary exertion of mind or body. I am now well again. Perhaps you have heard, though Gray of another botanist in the field, who had written to Gray about collecting plants from the Rocky Mts this season. His name is Elihu Hall, from Athens Menard Co Ill. (near Springfield.) Dr Gray referred him to me, and he has written making a proposition to work together, and making me a fair offer which I think I shall accept. I have written him saying that I would make arrangements with him on his proposal, and suggesting to him to come this way.

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From all I can learn I think he will be a profitable companion. Gray proposes that we collect 20 to 30 sets at $8.00 also to collect seeds for sale.
Hall proposes to furnish transportation, & to offer my experience, knowledge of the country, and the plants desirable for collection; in other respects, divide the expense equally, & share the proceeds. He takes an assistant, — so you see we (including the mules) will make a 5 horse botanical team, the latter being specially devoted to Gramineae.
Now about that barometer. I can't get along without it, for it will be an additional inducement to climb, to be able to know how high I am. I have written to Hall about paper. Dr Shaw sent me an ingenious portable press, which I hope to put to some use
You have got the slips from Sillimans Journal containing my sketch & list of plants to 1000. It is almost provoking to stop right there and wait 2 months for the ballance, but it works good

you time to study up, and get in some notes of other plants. I am sorry you did not make the connection of *Abies alba* referred to in my sketch to *A. nigra* but you can refer to it in your notice. You got the slips I sent you in my last letter pine leaves & seeds?

I will send you my prices before I leave. Would it be worth while for you to call again and see about correspondence for the Republican. I hope you will not regard it as a fool's errand, but I was deceived in some arrangements I expected to make last season, and forwarded form in five communications, which never reached their destination. While they were their offer of $5 per letter for monthly or semi monthly letters? If so you can inform them that they may expect to hear from me.

Please write soon

Your truly

C. C. Parry

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Recd March 29
Ans April 1

Davenport Mch 28th 1862

My Dear Dr

Your 24th received. I send enclosed fragment of Eriothera No 117. which is late flowering specimen also an early gathered specimen No 116. pimentifolia
Will look out for the 2 Sp next time. Ice is just breaking up in the river here. I hope you will get some good paper. I am not able to say about fitting in a new tube to barometer. Better send full instructions I will send down the press first good chance I am in hopes to get some trusty friend to deliver to you who would also take charge of the barometer. I shall see Dr Olshausen Had I known he was a friend of yours should have made his acquaintance before. Questions about prairies must be answered from the field. I shall know better what to look at now

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Keep sending directions, they will be all useful.

I must close in haste being much hurried

Yours truly

L. G. Pairy

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Rec^d April 6th

Davenport April 4th 1862

My Dear Dr

Owing to some different arrangement of the Company with which I expect to go out, viz. outfitting on the Missouri River, it will be necessary to send on the paper to Omaha, Nebraska Ter^y and I will therefore request you to buy and ship 10 Reams drying paper, ~~and~~ consigned to care of John R Porter Forwarding Merchant Omaha N.T. I suppose it will answer to go as fast freight, unless there is a fair certainty of its getting through by 1st May, by boat.

Under this new arrangement I think it will be advisable for me to go to St Louis, thus securing the safe transmission of the barometer, and getting what information I can. I will bring down the parcel of pumes &c and hope you will get your patients all well. So that

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can absorb your time to good advantage. My calculation now would be to come down about 24th inst and stay with you to the end of the week following. Will write again more definitely when plans are all settled upon.

In haste

Yours truly

C. C. Parry

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Rec'd April 8th
Ans

Davenport April 5th 1862

My Dear Dr

Received your card of 1st inst wrote you yesterday announcing the change of route. Probability of my going to St Louis and requesting you to ship to Omaha 10 Reams pressing paper

Would say now in answer to yours advising to get 3 bundles brown "Jay" paper largest size 12 x 18. (9 Reams.) and one bundle 3 Reams smaller size 11 x 16 blue making four bundles in all 12 Reams

Will talk about botany when we meet I have a small branch P. aristata which may help out your figure

Write & say what you have done about paper and any thing you want me to bring. I think I shall bring down all my Cluttonias for verification. Have some unsettled Mex Bot. letter from Dr Hayden stationed at Detroit Mich. is in ~~Coast~~ Survey Lake Office wished to be remembered

in great haste Yours

B. C. Stevens

On looking over your note
find there is no small sign
of the blue. so take one bundle
of the small gray — and perhaps
one bundle of the large blue
for a change, but not much
consequence viz

6 Reams large gray
3 " " blue
3 " small gray

To be shipped to Omaha. N T
Care of John R Porter — directed
to me

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Rec^d May 22^d
Ans June 9

Nuttall says: weglen seeds
in the fl. of Florida
word not Cephra?

notes only on one page

all pinned with long fine attached
split specimen

Mouth Camp near Cotton wood Springs
May 14th 1862

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My Dear Dr

Being near a P.O. and about 1/2 way on the road from Omaha to Denver I conclude to improve the opportunity & drop you a line. The opportunity is a shady seat under the wagon bed, and nothing to disturb or attract outside except a strong south wind.

I made the connexions all duly from St Louis to Omaha and reached the latter place on Tuesday morning 2 days ahead of my Company. We left Omaha Friday May 2d. and have progressed so far quite comfortably good roads, poor fare & little to see. My baby (barometer) is still safe notwithstanding the vicissitudes of fording the Platte at Ft Kearney and other dangers — but one of my nice little thermometers — broke. I kept it in my pocket for safe keeping which unfortunately proved its ruin. I must take good care of the other. I made a set of observations at Omaha — in the State House 3 days with good results. I have not yet

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made any observations on the road. mainly from want of conveniences. I dont know that it is of much consequence if I get a few stations well fixed. I meant to observe at Ft Kearney but we did not stay there passing directly on. when I get a full day I will take some observations. midway on the route The season is backward on the plains, grass quite short and being a week earlier than last year on the route there is little to look after My associate E Nall is very zealous. & having only botanized quite locally in Ills he keeps a good look out for all that are new to him. He is an excellent collector and very keen sighted but not tough, and thinks campaigning is rather hard life We shall make a greater mass of collections. The paper came to hand in time & in good order.

Our plan is to collect as fully as we can near the foot of the Mts till the alpine season advances, and then push for the high Mts. Our Mountain head quarters will be Tassyale, Colorado Ter.. to which point please direct your letters till otherwise advised

This location is within 5 miles of the divide leading to the head of Blue River. also on the route to head of Arkansas & Rio Grande all of which places we shall try & visit and as the season advances. sufficiently vis A Pikes Peak & Longs Peak to the north I shall then be able to trace the distribution of plants & trees; also see whether the P aristata has an extension or limited range. The first sight I can get of P. flexilis I shall look out for the juniers indicated by you and forward at once; also rough sketches of the general size & the tree habit &c

I was quite fortunate the other night while in your company to discover two new pines. Pinus Sonniferum? They were quite distinct from anything before known but hardly describable.

What do you make of the enclosed Polygonoid? plant, found by Mr Hale in the bottoms of the Platte above Ft Kearney associated with Triglochin palustre & Ranunculus Cymbalaria It is not well developed yet, but the flowers seem perfect. What is it?

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I shall try & write often if it is only in scraps & send you bits of everything that strikes me as specially interesting. How would it do to put up a box of pine specimens large with cones attached & specimens of wood & bark? I must try & clear up all those doubtful points this time. When you write give me all the botanical news. Don't care about warm items as I hope to be out of reach & sound of cannon —

Kind regards to Mrs E.

Your truly
C. C. Parry

Wood & properties of pondeosa not mind decide
Cones ripening 2d year?
Wood differs much on alpine heights and in valleys?
... of P. contorta colour?
Size — wood — bark of Magnesia
popular name,

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Recd June 8th
Ans June 9th

Denver City — Colo. Terr
May 29th 1862

My Dear Dr

Arrived here this morning. Thus concluding our tedious trip over the plains. We have collected pretty carefully along the route: Astragalus being the main feature of botany.

I have your letter of May 12th with enclosures. Your Fl Kearney letter missed me. We will keep an eye on Oenotheras. I am not surprised that your G. debilis turns out a form of G. acuta. I did not get from Gray any copies of list of plants in May No Still. I hope it will come along in time to use.

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Greene's letter is very plain & explicit, but I still hope I shall not need it. The baby is still safe & good condition, 2 obs to day. Since

May 29th 2 P.M. Bar. 24,664. Alt Th 75° Det 73° (Clouds gusty
" " 7 " " 24,740 " " 69° " 67° + (Clear breezy)

I will copy first leisure my record, so as to secure from loss or accident. We expect to leave for the base of the Peaks tomorrow but I shall not probably reach the alpine fields for 2 weeks or more. The snow is still deep on the high ridges & the season more backward than last year.

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I shall keep firing at you from some convenient point & short scraps of plants at you

That will be a very interesting list of Gentians to be figured. I shall want quite a no of specimens I suppose they can be bought —

Our plan is to work along botanizing on the route to Tomyall in South Park. Thence explore the Divide & the valley of Blue River in Middle Park & return to Denver via Pikes Peak. Thence to the alpine region of Clear Cr. & over to Middle Park then the vicinity of Longs Peak in which is called the Boulder District This I calculate will pretty well use up the season

Enclosed two scraps. probably will know some but not collected by me last year please give us the names

Yours Truly C. C. Parry

Please answer this to Tomyall. afterwards to Denver —

Mt Vernon Base Rocky Mts
June 1st 1862

Rec'd June 15th
Ans June 16

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GEORGE ENGELMANN PAPERS

My Dear Dr

I send enclosed copy of my barometric record to date (not including observations here to be sent after. This is a good station. and I shall make as many observations as I can before leaving. It is also from botanizing ground being intermediate between the Tertiary Sand stone, and the granite rocks I find many plants not on my list of last year as I passed over the place quite hurriedly. We shall make our way slowly into the heart of the Mts & reach the alpine region about 14th June (Early Spring). & after that

(Please collect Rocky Mt. & send me a full list of the plants collected and sent to you of mine & omitted quoting to Jennie)

Explore some of the high peaks. I think we shall go as far as the Arkansas before returning to Denver about July 4th at this date there is an expedition planned for the ascent of Long's peak and I am one of the No of course I have heard of a "milk white" barked pine in Southern mines. Newberry's? and doubtless P. flexilis. I shall be on its tracks sure Please write me hereafter to. Denver Care of Dr I I Saville I fear that letter for the Mts are very uncertain. I did not get copy of 2d part of my plants doubtless. lost I wish you could send me at least one in letter envelope. I want it for reference I shall write often + enclose record Yours &c

C. C. Parry

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Rec: June 21st 84
ans — 24th

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Bradford Junction Rock, Mts.
(June 15 1862)

My Dear Dr

I enclose another sheet of barometric observations, getting quite interesting, as you perceive. My reading at this place the highest point on our route is 22,565.

I am somewhat at a loss about the best time for taking observations. When I can select, in the pamphlet you gave me the time set down is 7^am — 2^pm — 9^pm, but I think your observations are at 7^am 9^am 3^pm & 9^pm. Now is it which should I adopt. I suppose however, in travelling where exact accuracy is not attainable, as many observations as can conveniently be made should be — This is the course I adopt. I have not yet got into the region of our P. flexilis but I expect every day to get my eye on it. I have collected P. contorta early leaves male flowers &c. — Must say something now about Pent Thunder. We found it quite unexpectedly at our last camp, and as it seems in a better state than any specimens last year I hope your engraving is not so far advanced but what you can modify to do more justice to this fine species & specimens enclosed you will see that the flower is by no means inconspicuous, though shy about opening. When expanded it is fully the size of the medium sized Stellarias, its white petals are folded over almost flat showing its sharp points & and intermediate lobes. It has two purplish spots, near the funnels at the base of each petal, and a green or sometimes brownish line on the outside.

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The radical leaves are also larger, and look more cartilaginous probably more nearly resembling your Asiatic specimens
The enclose specimen of spread flowers, and large leaves will enable you to appreciate these characters — I also send enclosed a singular linear leaved Pteris? rather rarely but the last year fronds accompanying will enable you to make it out. The season is much more backward than last year the Snowy range still deeply draped in its wintry covering, and no show for plants yet
We calculate to make slow progress towards Taos, we which is within 5 miles of the Divide; and then perhaps cross over to the Arkansas, and round the base of Pikes Peak to Denver, and then take a fresh start somewhere else. I fear my companion E Hale will not be able to do much in the way of climbing, as the rarified air has brought on an attack of bleeding at the lungs which has reduced his strength very much he is a thorough collector, but too anxious to make money. collects too largely of common species, and more intent upon getting a mass of specimens for sale than pushing for new discoveries. I shall write again perhaps to go by same mail, must conclude now hastily yours &c

C C Parry

(Write me to Denver Care of Dr J J Saville)

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Yellow flowered Polemonium? new?!!

also a Pentstemon

We found in the Platte the plant last year near Ft Kearny in a meadow with white or light blue flowers on a long stem. Is it the same as you mention of?

Tarryall South Park Rocky Mts
June 18th 1862
Rec'd June 29th
Ans July 8th

My Dear Dr

We have just reached this point on our route, and find ourselves ahead of the season. Deep snows and few plants. We shall now shape our course for foot of Pikes Peak and then to Denver of wood before leaving — I received here the slips from Sillman & copy of figures St Louis Acad for which I am much obliged. As the mail closes this evening I shall have to finish in a hurry. Why no letter here? We shall probably be in Denver in about 2 to 3 weeks. Then up Clear Cr in vicinity of Longs peak. I enclose Barnum obs. also notes mislaid of Echinocactus Simpsonii. I may leave another letter here for you before leaving. Yours truly

C C Parry

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Rec'd July 11th
Ans July 15th

Camp Soda Springs, near Colorado City
June 28th 1862

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GEORGE ENGELMANN PAPERS

My Dear Dr

Again within reach of a P.O. I send you my reports to date. This is a delightful locality — full of interest. Just at the foot of Pikes Peak with the brawling waters of the "boiling fountain creek" and the magnificent Springs bubbling up at its side. I wish you were here to enjoy it with us

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11 inches 232 rings

average width of each ring $\frac{11 \times 12}{232 \times 2}$ lines = 0.28 lines

$= \frac{11 \times 3}{116} = 116 \,/\, 330 \,/\, 0,28$

232

980

928

0,28

11 / 232 / 21

22

12

1 inch growing = 21 days

We had a very pleasant route from South Park to this point following down the Tarryall branch of the Platte and thence crossing over the divide to the Arkansas waters. Reaching at Pikes Peak. among the rarest plants found was the enclosed Heuchera? of which I give you a full account. I have a section wood & bark of Pinus flexilis. It as well as P. ponderosa is a slow grower. The trunk I examined less than one ft. diameter had 232 annual rings. Here we have the nut pine P. edulis growing in perfection all round us I shall get nice flowering specimens (male) and young cones; also wood &c.
Before leaving Tarryall I secured young specimens male & female of Abies grandis. also. our puzzling A. nigra. I am getting more of the opinion that it will have to stand by itself. Its whole habit & character is so distinct from our Eastern sp. I shall try after collecting all material to see if we can't make an Abies Engelmannii out of it — its tapering even trunk, scaly reddish bark. white wood &c are some of the peculiar characters of this tree. We are now out of its range Abies Douglasii & A. Menziesii. have reigned monarchs of the forest

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We have made arrangements for the ascent of Pikes Peak day after tomorrow June 30th. we will make a two days trip of it. shall have an experienced guide, who has conducted women up here. would be another fine chance for Mrs Engelmann to study nature in its rough attire. no danger as at Lake George of falling into fashionable comp.
The water at these Springs is really delightful quite up to Saratoga. no doubt some time a place of resort for pleasure seekers.
In my next letter from this place or Denver I hope to furnish you the height of James Peak also including some alpine discoveries — Our next field of Bot. will probably be vicinity of Longs Peak I should like to push down farther into N Mexico & head of Arkansas. but it is only by dint of hard coaxing that I can induce my comrades to run any risks or get out of a beaten track.
They stood guard all one night for Indians being alarmed at the singular noise made by beaver splashings in the creek. when I laughed at them in the morning they were quite indignant that I did not concur in their fears. and do not yet consider it a good joke

Yours &c

C C Parry

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Recd July 24th
Ans same day

Denver July 12th 1862

My Dear Dr

Just arrived at Denver find your two letters of June 14th – 24th contents noted have no time to write nothing new to send we leave for Clear Cr this PM to resume my old location I fear we shall loose many nice plants by staying so long on the lowlands. but we drive a slow team. and a plant that will count one in the set by the policy of my companions is as good as a rare one I am out of all patience. but must do the best I can there is still a fine field for discovery to the west & South of the Snowy range that will hardly be touched by us this year. A letter from Dr Gray in answer to mine — Strange that we should have overlooked Flax maritima we have from specimen of Asclepias Speciosa. Torr I suppose it is now quite common in collections

No time at present

Your Affy

C C Parry

Barometer shows considerable variation from 0ts May
Last reading July 12 7 AM Barom 24.974 Th A 64 Th Del 63.

Continue to direct as before care Dr Lavalle

Rec. 8 Jan. 1863
J. Stanley

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN BEQUEST

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Rec'd July 31st
Ans Aug 1st

Camp above Empire city
July 20th 1862

My Dear Dr

I write you once more from my old stamping ground everything looks quite home like, My old Cabin deserted. still we look the winding waters of Clear Cr & the distant Mts Asclepias Pavonia is in full bloom at my door way — But I must talk to you about Pines. P. flexilis comes up once more. only yesterday I managed to find old seeds and immature also female flowers. (all enclosed) It thus appears that the seed is wingless or as you would say coherent, a part of the scales the largest are full size. from large mature cones. I also send male flowers to complete the description. I have also a sketch of a tree showing its peculiar branching habit so that I think we now have full material to complete the description —

I have taken one trip to the range while here and got a good observation of the Pass. also the limit of trees which you will find correspond closely with some observations on Pikes Peak. I shall take others at different exposures but I think the line will not vary much. the alpine district being surrounded by lower Mts I think I have got hold of the true Abies alba. judging from the long cones and peculiar habit. I want more material for comparison before deciding — to new plants —

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The difficulties between Hall & myself are about culminating in a separation. he leaves me free to follow his own tracks, and I mine, a good arrangement for both parties, we shall still agree to unite our collections but will collect separately. he on the lowlands & high up — I hope to be able to make arrangements to join some parties over in Middle Park which will give me a new field to work. I am rejoiced to find that the season is so backward that I shall not lose many alpine plants as I feared might be the case and would have been had the season been like last year. Please calculate all the principal points of observation particularly in this locality, as I may want to use them — I shall have a chance to compare my instrument with regular surveys, as I have got points on the line that has just been run for locating a wagon road over Berthoud's Pass. I shall make this point a station to refer other observations to, as I can get several weeks at it there. —

you might venture to answer this letter. Direct to Empire City Union District but after direct as before to Denver. please send copy of last part of Pl. Pacific if published — I write see that you get full sets of fruit of Ribes perhaps a can full — Ribes inequum is now in full blast, and makes a nice desert — I shall write again in a week so adoo —

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GEORGE ENGELMANN PAPERS

Yours &c

C. C. Parry

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Rec'd Aug 17

Cabin above Empire City
July 25th 1862

My Dear Dr

You see I am reduced to brown paper. As intimated in my last Mr Hall & team left on last monday, much to my relief — for our connection at the last got to be insufferable — so that I was glad to effect a separation on any terms. — As it is I have agreed to take as my share of the profits only a part of my third of the collections up to the time of separation, and after that he is to have exclusive right to the sale of specimens, such as we both collect, and I have the privilege of putting in any such as he does not get — He is going again to his favorite lowlands, and thence over our old route to South Park & across the range to head of the Blue. — In the mean time I shall be pilfering into the alpine flora now in full blast & make an excursion over to Middle Park. — I shall confine my attention only to the more interesting forms, and collect largely. Fortunately the alpine season is so backward that I shall have very little interesting — and by staying later secure later forms. To give you a specimen of the extreme illiberality to which I have been subjected. (You will hardly believe it) one ground of objection was that I wasted too much time in making barometric observations!!! — That would rob half the sale of plants —!!! Our arrangement on leaving was to meet again in Denver 1st Sept and return home. The plan is But on reflection I have pretty much concluded not to join them again to expose myself to additional annoyance My idea now is to stay with here long enough to make large collections of fine seeds. in hopes to realize something —

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George Engelmann Papers

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Rec'd May 17 1862 2d Ans May 27

Please inform me whether in your opinion, by collecting seeds — say of P. flexilis — (detached seeds) to the amount of half a bushel — A. Menziesii, & A. Douglasii (with cones) to the amount of 2 bushels each, & smaller quantities of A. arizonica, P. ponderosa & P. contorta, I could get get $200.00 to $300.00 — Also, whether the seeds will be mature enough to collect after the 1st hard frosts in Sept? If I can do this, I think I shall conclude to stay as late as may be necessary, up to Nov 1st. Dr Gray has written advising to collect largely of Pine seeds that does not say what they would sell for in large quantities. It would involve considerable labor especially in collecting seeds of P. flexilis & P. contorta which are in remote localities. Cones seem to be abundant this year, particularly of A. Menziesii which I consider one of the most choice ornamental trees in its symmetrical shape, fine foliage, and rapid growth. Please advise me on this subject, with special instructions in regard to collecting, so as to insure good seed. If your answer is favorable you may consider the matter decided, and can direct your letters hereafter direct to me at Empire City, Union District which will be my head quarters till starting homeward. This change of plan would necessarily involve an expense which I have not calculated on, but I can probably meet it if necessary, by the balance — or if that is not advisable, could

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make arrangements to draw on you at 10 days to the amt of $100,— to be accounted from the proceeds of my share of plants in Wilkes collections. I should only calculate to do it in case of necessity and for the smallest amt necessary for transportation expenses, and probably would not need to do it at all, certainly not till time for starting back — I mention this to be on the safe side in making my calculations, as I do not want to fail in an important enterprize for want of necessary means to accomplish it —

About plants again — my only excursion to the range 23rd I was surprised to meet with Gentiana prostrata in full bloom much more luxuriant than last year's specimens in fact all plants this season are unusually vigorous growth — I expect next week to visit locality of G. Parryi also to get fruiting specimens of Chamaephilla &c — One of my excursions will be to measure Grays peak the most accessible of the three. Torrey, Gray, & Eng. this with measurements of Middle Park — Denver &c will complete my barometric work unless I shall be invited to the excursion in connexion with surveys now in contemplation. By next year if anything is done in the matter of the Pacific RR. I shall by 1 get some situation of short I can extend my observations further westward please bear this in mind if you get an opportunity to put in a word for

Yours truly

C C Parry

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Recd Aug 24th
Ans Aug 27

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GEORGE ENGELMANN PAPERS

Empire City Aug 14th 1862

My Dear Dr

I must make an hasty answer to your letter of Pike Aug 2d the only one I have received in a long time. About the Pikes Peak letter to Torrey I have sent in on some time ago. Should like very much to have it published under your revision please write to Torrey to send it on, and if you think it worth publishing, add such notes, and make such alterations & corrections as you think best. I have included a rather lengthy notice of P. flexilis, noting its range in altitude &c. In my last letter sent just after my return from Grays Peak I had no time to give more than the Barom Rs. I have since written to Dr Gray giving him a brief account of the trip & enclosing some scraps of plants about which you will hear through him. This is the highest peak I have been on, yet, and probably as high as any in the range. About the "snow line" I have been much puzzled where to fix it as the persistent patches of snow in this region appear as drifts, scattered here & there at lower or higher elevations. I have pretty much concluded that the true snow line is to be found at the heads of valleys where the 1st patches of snow are met with along the edges of brooks or sometimes overarching them. Plants will be the best guide such as Primula suaveolens, Ranunculus adoneus &c &c. What do you say about it? Does

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the snow line in Europe mark out a regular line?
I shall get the range in altitude of all the Pine trees
The lowest station of P. flexilis is in the valley of
the Creek at this location, but perhaps this is only a
straggling specimen, as I frequently find high alpine
plants, on the borders of the creek — At its highest
elevation it keeps well up with P. aristata but
generally disappears about 1000 ft below the highest
limit of trees I think that would give a fair
approx of its range You will see a more
definite account in Torrey's letter. I have rather
suspended Barom Obs. since my trip to Mt Grey
but shall commence again, making stationary Obs
at Linstrom's mill near my camp, shall take
hourly observations on the 1st settled Lunar day
Next week I expect to go with a party on my
long expected trip to Middle Park I am very anxious
to note the changes of vegetation &c on the route
we will probably be gone 10 to 12 days, our principal
station will be a noted locality of hot Springs.
I shall write again on my return & give you
some of the results in the mean time I hope
to get your back letters and so get posted
on past matters. Have heard nothing about Hall
and care less. Hope he will blunder on some
nice things — What sp is the enclosed flower
perhaps L affinis. L Parryi not out yet?! L frigida in
full flower yesterday

Yours truly C C Parry

Rec'd Sept 30th
Ans October 8

Empire City Sept 19th 1862

My Dear Dr

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Sending the inclosed documents to you Dr for my answer if they should fail to instruct I send things for, when, in their place found, look over inclosed plants and you see what light for cure seeds of Pflexiana are ripening and I must get to work on the squirrels will be ahead of me with seed in newspaper forwarded of Abies hybrenaei & poss spr Snow on the adjacent peaks & frosty nights in the valleys

Yours truly

Dr Engelmann
St Louis

A. D. Hopkins

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Rec'd Sept 25 '15
Ans 27

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Postmark Sept 16th

[illegible] of the Seeds I have received to date with a
big [illegible] of Nuttall's birds, as I have written twice before
for the Dr. Thomey Flora in Phil. much pain
I am very obliging. such fine seeds are nothing
simply, I shall transmit one of them to my
best mostly seedlings, accordingly, as, most than
at present my Dear Sept. I have quite enough
for a year's work on hand & expect to
[illegible] Flora, I shall not have material for
newspapers. which will keep fresh. Due and I have
received of the [illegible], but as I do not have
any snow here, Mt Jay will be the highest point
I have been in since received to at the Rocky Mount
Sierra of Colorado & Utah. Mt Shasta & the mountains
for 2 miles south the [illegible] & [illegible] which
to put it on Mt of the Rocky Mt range, Pike's Peak
here is the only one I visited short & I am glad I visited
that. It is very [illegible] impressive. By a rough [illegible]
of Pike's Peak the snow line is 1000 ft above the top of
14000 ft. this is in about [illegible] 40° lat. & [illegible]
[illegible]

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[illegible] I wish you were in a place to visit some of another race [illegible] Now I hope that it has passed — it would be useless if you were [illegible] would it not be well to endeavor on St Louis the [illegible] Could you look such repe seeds of [illegible] Tile [illegible] ? I [illegible] it in the [illegible] I was astonished from the fact [illegible] that it was the same [illegible] the [illegible] Tile [illegible] good as a new [illegible]

I have met sparingly with a Thermopsis [illegible] perhaps Thermopsis but differs from it [illegible] of that plant. It is quite tall 18 inch to 3 ft [illegible] from a very stout spike. I have a [illegible] seed to Dr Gray to identify.—

My friend & partner Hall keeps well & [illegible] I have not heard a word since starting, and he was to be at Denver [illegible] on his way home, and write me from there. What a sad state of things we argued to the war. The end seems farther than ever and our Government begins to feel that it is no easy job to conquer a determined & desperate people. — If the war is to last I think I should make an effort to go to Europe & [illegible] & study botany on the Alps — I don't fight. Much obliged if you have [illegible] for Denver I think it would not be necessary, & shall not go it unless in case of necessity — Hope [illegible] Torrey [illegible] much [illegible] expiring of it

Yours truly

J. C. Parry

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Rec'd Octob 12th
Ans same day

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Denver City Oct 3d 1862

My Dear Dr

You will perhaps be surprised to hear from me at this place on my way to the states. am just ready to start with team for Davenport via Omaha

Just before leaving Empire city I received from Green by mail the Attached Thermometer but it was unfortunately broken in transit

I have also broken the last of my Det Therm I have however sold the barometer to the Surveyor Genl F M Case, he advanced me $40,00 and will pay $25, more when he received the Attached Therm. I am mail Detached Th. This I have ordered from Green to be sent by Express. to send his bill as before to you. I am very glad to have disposed of the instrument on such good terms & in good hands. As soon as the instrument is in my hands I will commence

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a set of regular observations at the Surveyor Genl Office. Genl Case is a very pleasant Zealous man. I told him you would write to him in regard to observations & perhaps you can send him blanks to fill up. I left with him the pamphlet of instructions and Jesuns letter about repairing &c. When you write to him it would be well to be full & explicit in your directions. They will send you a monthly report or oftener if you desire it. Write to them about making hourly observations. I presume they could arrange to make them several times & perhaps through the 24 hours. The location of the Surveyor Genl Office is higher than where I took my observations probably not more than 15 to 20 ft.

I have my traps all packed here. Have got a good supply of pine specimens with mature & growing cones attached. I just looked at some I put one side (working specimens) of P. edulis. They show the male flowers also

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the pony female, and the pony, Carex very satisfactory. I hope you can wait till you get my specimens before finishing your paper on pines. I have specimens of wood & bark of the principal ones, & so about Yucca. I have only a single dwarfed specimen. Hall I think has several so that I hope you will get one in the set coming to you. The flower is globose when fully open. The leaves quite narrow linear and sharply pointed grows from 1 to 3 ft.

In your correction of Pikes Peak letter please insert in the list as peculiar. Androsace Chamæjasmi. I think I sent you a specimen. Please answer this letter to Omaha where I expect to be by 20th and after that to Davenport. Would it be worth while to send you a small parcel of pines from Omaha? to save time? if so let me know. I hope you will get some the set from Hall's collection & write me about them

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The weather here is very fine we just got in the valleys — I was on the range last Monday Sept 29th & collected, some of Pinus flexilis and Abies grandis & Engelmann's Pseudotsuga Douglasii &c — I just managed to intercept copies of last part Pl Fauna on my way down also your letter Sept 18th Sheldons calculations on taking the sea level Bar 30 — Ther 32° — he used I think Bailey's tables, of course, less satisfactory than yours he took a triangulation from Col C[illegible] I have a note of A Snowden it agrees better with your computations than this — from just these we can get data of instrumental levelling about the Pathfinder pass to compare with my obs. I will write to him about it. he said in a general way they corresponded very nearly

I am about to start for the plains. Tell me near from you at Omaha

Yours truly

C C Parry

I shall not need to draw on you, have enough to carry me home

Missouri Botanical Garden
George Engelmann Papers

Rec'd Nov 1st
Ans Nov 6th

After several tedious delays
on the Mississippi & Ohio Rivers I reached home
safe & sound last Monday (27th) since then
I have been rather busy in out door matters
but now I packed up rather hastily an assortment
of plants for you, including pines &c & sent them
this morning by Express. I shall take more
leisure in sorting & arranging the bellance of the
collection. and you can write in the meantime
what you want in the way of seeds. &c.
Dry pine seeds are gone in the country.
I am somewhat at a loss how to pack them
for transportation. If detatched they will need
some earth about them to keep them from drying
you proposed "dry pulverized vegetable earth"
but in what proportion to the seeds, & how
packed in bags, or small boxes, ? &c &c
I did not get your long letter of questions

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Suppose it must have been sent to Prof. Gray [illegible] the first to forward [illegible] the cone find. I hope full material [illegible] Abies & Picea specimens of P. [illegible] & P. excelsa in different states will [illegible] with you. Abies [illegible] in the following in such poor condition. More on the "working specimen" later. I send a small chip of the bark. I have a larger block showing the annual [illegible] and give a section. The bark is [illegible] and uniform. quite different from A. nigra, [illegible] to my recollection. The wood is also softer, [illegible] and not elastic like the Eastern spruce. I hope you will be able to find good [illegible] so as to make a good specimen of it. Could you spare a drawing before the leaves fall off of the specimen sent? The specimens of P. excelsa include male & female flowers & [illegible] you no doubt acquainted with the [illegible] & fruit. I have no cones [illegible] it does not extend much north of Pelican Rock

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I hope you will some yet pass out for
Hall. and write some what on Liverm.
specimens. I have only a few of the collection
up to Cuba of separation but shall get a
full set. Hall expects to get some 20 m. sp.
I think he will do well to make out
If he has shown me his herbarium & the specimens
he would have done better. He has
quite a number of nice things in his mostly
collection. quite rich in flowering plants
& distinguished to which he has added quite
a number. You will find a few of these
specimens of F. Cilicalis. I did not get quite
as the box came too late. I am very much
disappointed Dr Short will not be able to add
of Hall's collection as I will supply him with
such as are deficient, from my collection of
last year and when the season will be over
to him. — Will not Mr Shaw and Mr Sullivant
do what, and how much? Dr Pope tells me
England about seeds is not very encouraging. Spare
the seeds Dorts, just as well that I did not collect half

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[illegible]

[illegible]

[illegible]

Rec'd Nov 30th
Ans Dec 10

Thanksgiving Day
Davenport Iowa
Nov 27 1862

My dear Son

So you have at last taken up a pen & good news to tell you. Your boy has actually moved. — and is pushing for a commission from you. Do give him one if he deserves it — I wrote a few days ago, enclosing letter from P. — So I have at last shown you off that nigger stump, as you are letting loose of the "bloodsucking pumpkins." Now of Williamson does not drag you Abingdon off —

I have been & are still in the same quiet way distinguish it from a moderate I feel much inclined after all to consider them the same species Newberry hardly makes out her case. —

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I may have somewhere stated
of *A balsamea* cannot be
[illegible] based on it just now
I send a more similar branch
on a [illegible] for [illegible]
There is near Empire City
it is from a small tree that
I cut down for seed with fruit.
It too far gone, and had to go
to the alpine district to get my
supply. The branch which I must
send you before you make out
your figure is interesting showing
the dissolved cones, very slightly
pedunculate & scales more
rounded. Right about the
rounded form of the next from
section. *P. Torreyana* cones is more
properly a, shagging shrub with
almost prostrate branches
on exposed places. as a small
tree it is quite rare. I spec
rather than [illegible]

I have somewhere a sketch
of *P. [illegible]*
P. [illegible] is quite physical
[illegible] as good as good.
I shall see if I can find
you more about it, & also
more wood specimens, and
a *piece of Pikes Peak*. We are
sorry I did not get good
specimens of *A. magnifica*
Contorta as intended. but
uncertainty of transportation &
[illegible] prevented. I have [illegible]
I think of it a sample of
P. Contorta from last year
I am [illegible] also a sketch
of bark & cone [illegible]. Valuable
for [illegible]. Do not [illegible]
[illegible] Bedding so good
reason for slighting this shrub
to District [illegible] of P. P.
where [illegible] hat is
in [illegible] P. [illegible] 100 ft high
[illegible]

Tell me what you think about
the scheme? I feel so very much
excited about it. I have a
letter on the subject that I think
will pay you to read. I
do you mean to send me
a copy of the Mrs Spencer. that is what
I should like if I can do further
work. I have written to Torrey to
do so to get me a pass
on Land Office. or Pacific RR. I am
suppose you get up a club of
10 or more & send me across
to California. If I could make
arrangements with Overland Stage
so as to let me stop over at
desirable points on the road. and
then summer on the Sierra Nevada
I'm then quite satisfied. —
I will try & send some of
the weekly communications

Yours

C. C. Parry.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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MISSOURI BOTANICAL GARDEN

Rec'd Dec 3rd
Ans Dec 10

Davenport. Nov 29th 1862

My Dear Dr

I packed and sent you yesterday a box of seeds & wood specimen & c as per receipt. — A nearly full assortment of seeds from which you must take what you want & dispose of the rest to Shaw. I hardly know what to say about price but leave it discretionary with you. say from $1 to $1,50, which seemed to be credited on the barometer acts. have Shaw give particular attention to A. Eng. the seeds of which are good & the tree desirable. It ought to grow well in Switzerland. Seeds of P. Edulis sent, rather inferior. best sent on to Gray some immature cones for "working".

I hope by this you have received from Hale, the specimens he would like to get from you would be "your specimens are as good or better than Parry!" I criticised him pretty sharply in the field, which he took in high dudgeon, believing that his way of doing it was perfect. You will perhaps, like his prime specimens with the heads scraped out of the cones so as to make them lie flat & look pretty. Any suggestions I ventured to make would be sure to drive him to the opposite. I told him your plan of drying papers by suspending but it would not do at all so he persisted in spreading them out, as he did in Ill. and save time by chasing after them and grumbling about the wind & weather generally. I learn from his partner Harbour, that the letter has told out to Hale. So the letter will have full swing. I wish he would buy me out too.

Still I think you will find the collection valuable & exhibiting a good deal of industry, quite rich in grasses, Carices, and flowering specimens of Astragali &c. a number of nice things and I hope some novelties.

About Stanleya which we found at foot of Pikes Peak is there really more than one species? the leaves are very variable, sometimes entire, sometimes deeply pinnatifid. is it yet in cultivation? we were too early for seed.

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I am balancing in my own mind about making a trip to the West or East next season. If nothing favorable offers for the former I should like to take the other tack. How I would like to spend a Summer in the Caucasus, and then drive among the libraries & herb. of Europe!!

How could I make it pay? expenses I mean — I must send you some measurements of fines &c and popular numbers &c. Since packing I looked at some specimens of A balsamea leaves mostly blunt but occasionally slightly emarginate.

"Hasta luego" as the Mexicans say.

Yours

C C Parry

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Rec'd Dec 9th
Ans Dec 10

Davenport Dec 4th 1862

My Dear Sir

I have been waiting for an excuse to write again but it does not come.

Have you got the set of plants from Hale? I do not get hear a word from him I am waiting to get my set of plants so as to send my supplement to pay as per agreement - shall not wait much longer - If you have the set from him please write me and let me know. how many species it contains, what new ones, from last year, what deficient &c. I hope he has sent you a specimen of Yucca - I have but one.

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Reading over last evening with some care, James account of ascent of Pikes Peak, I notice, that he took almost the exact route that we followed, starting from "Soda Springs", necessarily following up the same branch valley camping the 1st night at the base of the main peak & then making the ascent the next day at 4 P.M. spent 1/2 hour on the summit, and then stumbled down after dark to their camp which had taken fire. he notices the peculiarity of the alpine timber growth describing very well the prostrate bushy growth of P. mistata which he confounded with the tree he describes lower down as P. flexilis Not to be wondered at where he also takes A. Douglasii for A. Canadensis. he also enumerates in the timber growth A. nigra A. alba & A. rubra !!! A. balsamea says nothing about P. ponderosa or P. edulis. Long in his appendix, says the height of the peak by triangulation from their camp, (a few miles below Colorado City) is about 8500 ft. which added to your computation of C.C. 6342 ft makes 14842 ft. not so very far out of the way. in the body of the book he calls the height of the peak above the sea 11710 ft so that his miscalculation is principally the altitude of the base of the Mts. You will notice in my account of ascent of Pikes Peak some discrepancies, particularly in reference to the

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GEORGE ENGELMANN PAPERS

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account of Dr James, which ought to be corrected. perhaps better if it has not gone too far to withhold altogether from publication, at least I should like to make some corrections of statements particularly in the 1st part

I send copy of a sketch of P. flexilis. a fair sample of the usual appearance of the tree please show Fendler & ask him how it agrees with his recollections. Have you showed up the piece of wood I sent you I have a specimen smoothed off. shows very slow growth nearly 200 rings, in the piece sent you I hope to hear from you soon

Yours truly C. E. Parry

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Rec'd Dec 18th
Ans Jan 14

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Davenport Dec 15th 1862

My Dear Sir

After a long silence I have your letter of 10th, contents noted. I am sorry Genl Case is so poor as to want to give up the instrument. he wrote me to the same effect. I hope your letter will make him feel richer. It would cramp me a good deal at present to return him the $440 and pay you also. I think they might manage amongst them to keep it as it is now in working order and would pay for itself in a few recommais. I write to him to speak to you Evans about it & try & manage to keep it in the Zeus. If I come again I would much rather bring a new one to Zeus

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than take the 60 on away &c
Hall has written lately that he
will send on my set of plants
according to that agreement I
rated him pretty sharply for not
supplying me as soon as theirs.
He seems to get a good deal
of consolation from your "more
favorable opinion" of his plants
from your statement I see
very little difference between
your opinion & Gray's. but the
sharp point is evidently the
on Gray's criticisms, $16.00 instead
of $10.00 there is the tender spot
which you did not of course
feel authorized to touch, My own
opinion as often expressed to Hall
is simply that the collection is
not as good as he was capable
of making, and as he might
have made if he had taken
my advice more & expended
his industry in more enterprising
movements & less zeal for
common things. You will
understand that while I make
no claim to any credit in
his collection, in which he did
all the mechanical work of
pressing, &c. I am really as
a joint partner equal with
Huntz & Harbour in the collection
made up to July 1st. Up to that
time we tried to work together
I did the drudgery of cooking
for the mess. and gave them
the free use of my presses
books & knowledge of plants
indicating such as were new to
the collection of last season &
such as I deemed of special
interest. also collecting all new
plants that came in my way
that they would not be likely to
get. Several times I prepared

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a division of labor. that I would take certain families, and make full collections, or explore different districts. but they constantly insisted on keeping me with them gave me no facilities for excursions and so tied up my hands, assuming to do all the work, & then complaining that I did not do my share. I was forced to cut the knot. by separation and reclaiming up my claims on them. I give you this simply as an explanation why my name is not connected with theirs in the early collections after July the 4th I collected my share of the plants which are now in Halls hands. but not distributed as he had the same things and would naturally keep mine in the back ground. I write you this in explanation & as of no great consequence any way

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2?
Rec'd Dec 18

I have now sent you all my collection on hand to Gray, besides the new Gentiana. There is a new Senecio S. Grayi, and a Lycopus n. sp. the one with the leafy spike from Nuptial cliff and also found in Middle Park, are probably a new Astragalus which have also got the one with small flowers & growing pods, growing with A. Parryi.

I suspect that the new Pond Lily will have to go lower down in the ranks than Nuphar. The collection states, that there were three whorls of floral envelopes in Threes, which would probably place it into the endogens looking over Lindley's Veg. kingdom I see something approximating to our plant under Butomaceae (see pg 208)

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have you any specimens of that family in your herb.? the plants are noted as belonging to marshes in Europe & Asia But I shall not be satisfied with guesses the thing itself must come to light. if I have to go after it — You are looking out for a name. I suppose Mr Shaw would hardly feel complimented to use Ptkania which name I judge is yet unappropriated. I have however partly anticipated you by offering the name to the discoverer. as pay for good working specimens. Merrillia. wont that do! I will rewrite the Pikes Peak sketch forthwith & send back in a few days. — I think Longs base line must have been located near to or on the south side of Colorado City. as there is no suitable ground for a horse camp between there & the Springs on the Ft Jos. Boulle. So that you may assume that as the starting point of the triangulation I believe you make about 200 ft descent from the springs Did I tell you that Shelton of Col City had also made a measurement by triangulation from Colorado City. I think I must write & get his figures. I remember he makes the hypothenuse of his triangle about 9 miles, and the height something over 5000 ft I have an idea that there will be a very close correspondence. Did I write you about the difference of levels between Station 50. & Bethoud Pass

By actual measurement	2634 ft
By barometer	2656 ft
Difference	22 ft!!

very satisfactory!! distance 6 miles

Late letter from Trinity says he is going to send you all his Pinus material to study. So you must persevere. I too am anxious you should see A. Wilbrandii & P. cembroides. I feel a little suspicion of the former. but the latter I have no doubt has a wide range at high elevations.

My herb. specimen of P. flexilis were from the lowest elevation where as I have before remarked the cones are smaller & the seeds not well developed. The terminal bud. shoots beyond the cones the 2d season. and sometimes the 4th in the latter case the cones. Any be given two but fail & fall off. you will see scars on some of the young shoots such where previous years cones were. and vals. I think some when a developed bud has blighted the early (some years) cones. The largest cones I have seen were across the range in Middle Park. Much pinch more anon Yours C C Parry

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Rec'd Dec 28th
Ans Feb 12
Jan 14

Davenport Dec 25th 1862

My Dear Dr

You are so mum of late how shall I manage to get a letter out of you better than by asking questions? I have got at last the seeds of Hulls plants, and want you to just me in some of them 1st the Gentians. What is 4[illegible]? 4[illegible]1? 4[illegible]8? neither of which I have met with. Also Asclepias - 480? which I collected also.

What are the Euphorbias? What is 461, 462, 422, ? What novelties besides those nice Pentstemons - What of special interest &c &c

I suppose Dr Gray is working away at some of them. The Ashagali will come in nicely for his synopsis —

About Short. I want him to get all my new things this season I wish he might get a selection from Halls likewise. to make out his set complete. suppose you suggest it to Hall —

Hall is much more meek since Dr Gray raking down. It will do him good —

Do you hear yet from Saul Case about the barometer? I hope he will conclude to keep it. I thought of proposing in case he still pleads poverty to suggest that he raise the amount by subscriptions among the public spirited men of Denver, to help the matter we might subscribe $5,= a piece. and then he can certainly get 10 others besides himself to make up the $65,= I would like to get the matter settled up someway soon.

Another matter (aside) I want you to send me your photograph I have Torrey & Gray and a place for yours. my wife is interested and says "tell the Dr to put his autograph on the back" — mine will go back in exchange if you wish it

Are you doing anything toward a report on the hypsometric determinations? and how to be published? How comes on printing Transactions?

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Remarkable warm weather for the season. hard freezing and the only changes from wet to dry. Bad look in army matters plenty of blood shed & maiming but no progress towards reconstruction. My thoughts are inclining to Nevada for next season's operations. How to make it out is a question of time. Are you figuring P. flexilis and A. Engelmanni let me see proofs as early as you can. Please answer my question and oblige

Yours truly

C. C. Parry

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